

Abstract

An artificial mammalian chromosome, more specifically, a clone containing a mammalian centromere sequence and a DNA replication origin with mammalian telomere sequences added to both ends of the clone, is provided by preparing a CEPH artificial yeast chromosome library containing a human genome, identifying clones having a repetitive human alphoid sequence from this library, and further preparing a yeast strain in which mammalian telomere sequences are added to the ends of its chromosome.